

Pa, Pb : SAMPLE SHOTS FOR PREALIGNMENT
Ta—Td: SAMPLE SHOTS FOR GLOBAL TILTING
Aa—Ad: SAMPLE SHOTS FOR GLOBAL ALIGNMENT
1—32 : EXPOSURE SHOTS (TO BE EXPOSED IN
NUMERICAL ORDER)

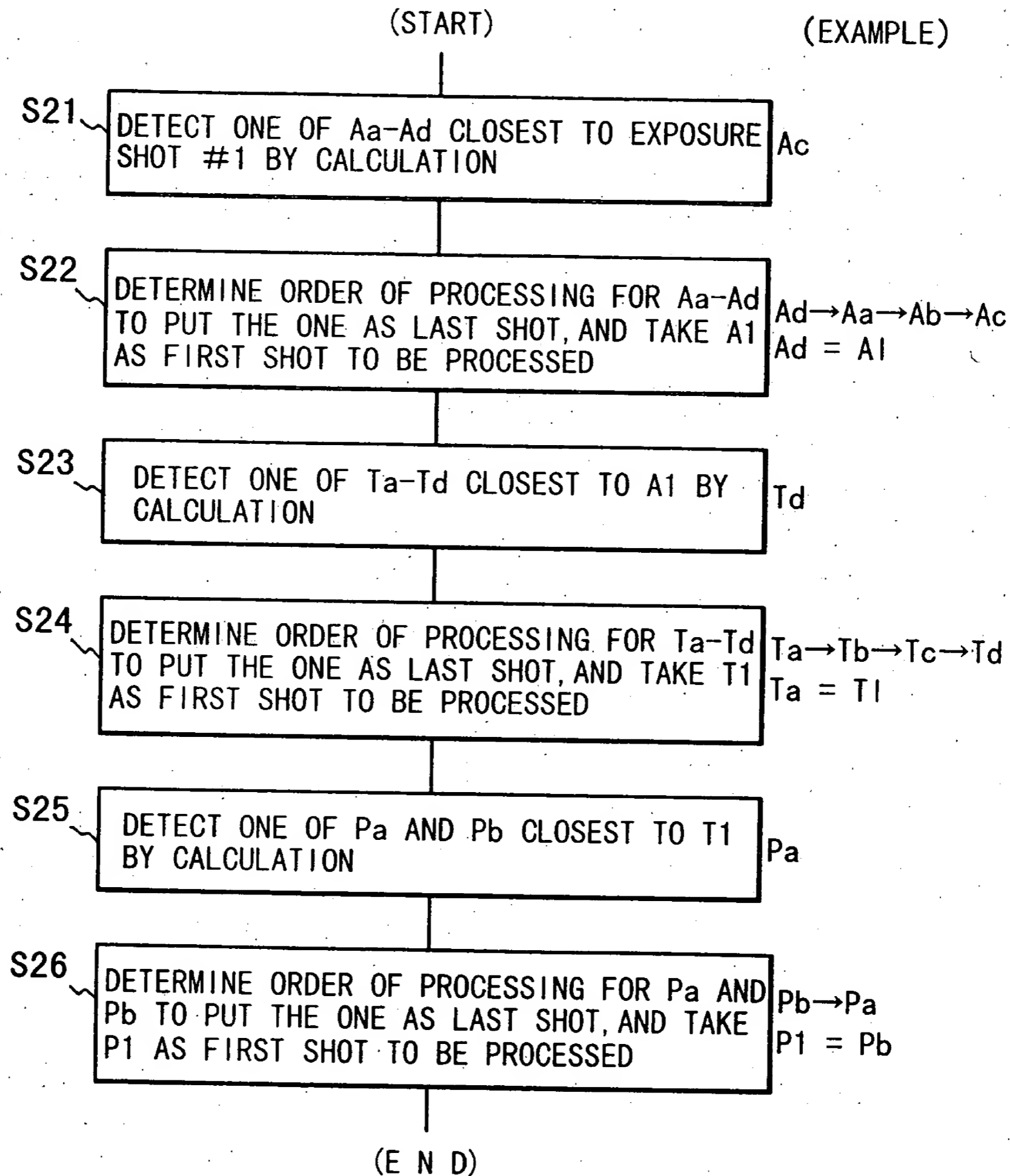


FIG. 2

P1, P2 : SAMPLE SHOTS FOR PREALIGNMENT
 T1-T4: SAMPLE SHOTS FOR GLOBAL TILTING
 A1-A4: SAMPLE SHOTS FOR GLOBAL ALIGNMENT
 1-32 : EXPOSURE SHOTS (TO BE EXPOSED IN
 NUMERICAL ORDER)

(START)

(EXAMPLE)

S41 SELECT SHOT OPTIONS FOR SAMPLE SHOTS OF
 GLOBAL ALIGNMENT

MARKED WITH PAINTED CIRCLES
 (EXPOSURE SHOTS #1-5, 10, 11,
 16, 17, 22, 23, 28-21)

S42 DETECT ONE OF THEM CLOSEST TO EXPOSURE
 SHOT #1 BY CALCULATION

EXPOSURE SHOT #1

S43 DETERMINE POSITION AND PROCESS ORDER OF
 SAMPLE SHOTS TO PUT THE ONE AS LAST SHOT,
 AND TAKE A1 AS FIRST SHOT TO BE PROCESSED

A4 = EXPOSURE SHOTS #1
 A1 → A2 → A3 → A4

S44 SELECT SHOT OPTIONS FOR SAMPLE SHOTS OF
 GLOBAL TILTING

MARKED WITH CIRCLES
 (EXPOSURE SHOTS #6-9, 12, 15,
 18, 21, 24-27)

S45 DETECT ONE OF THEM CLOSEST TO A1 BY
 CALCULATION

EXPOSURE SHOT #24

FIG. 4A

S46 — DETERMINE POSITION AND PROCESS ORDER OF SAMPLE SHOTS TO PUT THE ONE AS LAST SHOT, AND TAKE T1 AS FIRST SHOT TO BE PROCESSED

T4 = EXPOSURE SHOT #24
T1 → T2 → T3 → T4

S47 — SELECT SHOT OPTIONS FOR SAMPLE SHOTS OF PREALIGNMENT

MARKED WITH TRIANGLES
(EXPOSURE SHOTS #11, 16, 17, 22)

S48 — DETECT ONE OF THEM CLOSEST TO T1 BY CALCULATION

EXPOSURE SHOT #17

S49 — DETERMINE POSITION AND PROCESS ORDER OF SAMPLE SHOTS TO PUT THE ONE AS LAST SHOT, AND TAKE P1 AS FIRST SHOT TO BE PROCESSED

P2 = EXPOSURE SHOT #17
P1 → P2

FIG. 4B

FIG. 4B

46F

	● A2 29	● 30	● 31	● 32	
● 28	○ T1 27	○ 26	○ 25	○ T4 24	● A1 23
●△ P2 17	○ 18	19	20	○ 21	●△ 22
●△ 16	○ 15	14	13	○ 12	●△ P1 11
● A3 5	○ T2 6	○ 7	○ 8	○ T3 9	● 10
	● 4	● 3	● 2	● A4 1	

FIG. 5

Pa, Pb: SAMPLE SHOTS FOR PREALIGNMENT
Ta-Td: SAMPLE SHOTS FOR GLOBAL TILTING
Aa-Ad: SAMPLE SHOTS FOR GLOBAL ALIGNMENT
Ea-Ed: OPTIONS FOR SHOT TO BE PROCESSED
FIRST IN EXPOSURE PROCESSING
1-32: EXPOSURE SHOTS (TO BE EXPOSED IN
NUMERICAL ORDER)

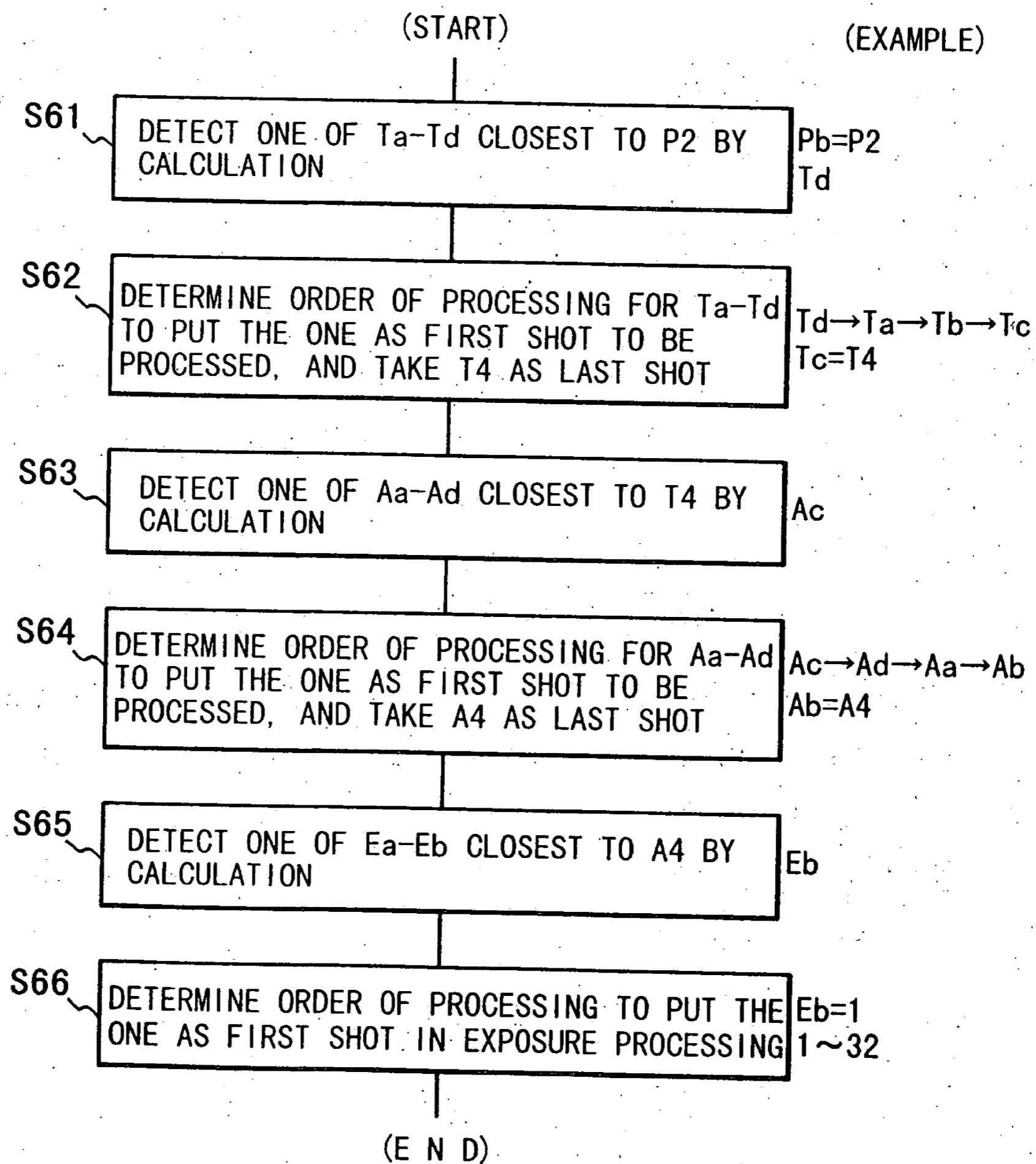


FIG. 6

	Ea 32			Ed 29	
23	Aa 24	Ta 25		Ad 27	28
22	Pa 21			Td 18	17
11	Tb 12			Pb 15	16
10	Ab 9		Tc 7	Ac 6	5
	Eb 1			Ec 4	

FIG. 7

US 2007/0199360 A1

START FROM Ea

	1	2	3	4	
10	9	8	7	6	5
11	12	13	14	15	16
22	21	20	19	18	17
23	24	25	26	27	28
	32	31	30	29	

FIG. 8A

START FROM Ed

	4	3	2	1	
5	6	7	8	9	10
16	15	14	13	12	11
17	18	19	20	21	22
28	27	26	25	24	23
	29	30	31	32	

FIG. 8D

START FROM Eb

	32	31	30	29	
23	24	25	26	27	28
22	21	20	19	18	17
11	12	13	14	15	16
10	9	8	7	6	5
	1	2	3	4	

FIG. 8B

START FROM Ec

	29	30	31	32	
28	27	26	25	24	23
17	18	19	20	21	22
16	15	14	13	12	11
5	6	7	8	9	10
	4	3	2	1	

FIG. 8C

